

Work Order ID 145103

Tuesday, May 03, 2016 1:50:22 PM

145103

Page 1

Item ID: D139-1012-011

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: AW139 High Capacity Cargo Net

Start Date: 5/6/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 6/10/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: MLS Date: MAY 03 2016

Tooling:

Date:

Run Start

NR1

QC: _____

Date:

SPC (Y/N): _____

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr	DAS
D139-1012-011	<u>A</u>	<u>10</u> <u>9-89</u>

DAS
6

JUL 27 2016

110

Document Control

9-89 0.00***110***

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile and create labels as per PPP D139-1012-011 chg 001

DAS
27
9-89

AUG 02 2016

120

Pick Kit

0.00

120

Packaging

Memo

0.00

Packaging

①

PC

DAS
28
9-89

AUG 02 2016

130

QC4- 100% Inspect kits for completeness

0.00

130

QC

Memo

0.00

Quality Control

DAS
27
9-89

AUG 02 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____			
Misidentified ☐		Past Due ☐					

Work Order ID 145103

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145103

Page 2

Item ID: D139-1012-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AW139 High Capacity Cargo Net

Start Date: 5/6/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 6/10/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

140

0.00

140

Packaging

Memo

0.00

Identify and pack for shipping as per PPP D139-1012-011

Location: _____

PPP Rev: _____

fg 019

DAS
28
9-89DAS
27
9-89

150

QC21- Final Inspection - Work Order Release

0.00

150

QC

Memo

0.00

Quality Control

AUG 02 2016

[Signature] / *[Signature]* 16/08/12
2m 16/08/02

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

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145103

D139-1012-011

Required Date: 6/10/2016

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued DAS 9-89	Status
D139-1012-041 *D139-1012-041* AW139 Cargo Net Assembly		Manufactured	No				Each	0.0000		1		6 9-89	DAS 28 9-89
D5320-043 *D5320-043* D-Ring Assembly		Manufactured	No				Each	0.0000		7		6 9-89	DAS 28 9-89
D5339-1 *D5339-1* Carabiner Clip		Manufactured	No				Each	50.0000		4		6 9-89	DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST162			50						
				144002			50						
D5397-1 *D5397-1* D Ring		Manufactured	No				Each	6.0000		4		6 9-89	DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST164			6						
				143978			6						
D5408-1 *D5408-1* Suspension Rope		Manufactured	No				f	0.0000		1		6 9-89	DAS 28 9-89
D5409-1 *D5409-1* Placard		Manufactured	No				Each	0.0000		2		6 9-89	DAS 28 9-89
D5409-3 *D5409-3* Placard		Manufactured	No				Each	0.0000		2		6 9-89	DAS 28 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

Picklist Print

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Work Order ID: 145103

145103

Parent Item: D139-1012-011

D139-1012-011

Parent Item Name: AW139 High Capacity Cargo Net

Start Date: 5/6/2016

Required Date: 6/10/2016

Start Qty: 1.00

Required Qty: 1.00

AN526-10R12 *ANS 26 1032 R12* Purchased No

Each 0.0000

AN526-10R12

**

Screw *DAS 27 9-89*

AN970-3 Purchased No

Each 223.0000

AN970-3

**

Washers

Location

Loc Qty

Loc Code

ST260a 198

m129630 198

ST321 25

m128057 25

Each 163.0000

MS21059L3 Purchased No

MS21059L3

**

Nut Plate

Location

Loc Qty

Loc Code

CA 8

M129682 8

GA 18

M133990 18

ST301 111

M134055 15

M134257 50

M134509 46

ST303 26

M133016 26

Each 71.0000

MS24665-136 Purchased No

MS24665-136

**

Cotter Pins

DAS 27 9-89

Location

Loc Qty

Loc Code

ST289 71

2421 71

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			OTHER : ☐	

Tuesday, May 03, 2016 1:50:22 PM

Item ID: D139-1012-011

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: AW139 High Capacity Cargo Net

Start Date: 5/6/2016 **Start Qty:** 1.00

*** 1 ***

Cust Item ID:

Required Date: 6/10/2016 **Req'd Qty:** 1.00

*** 1 ***

Customer:

Reference:

Run Start *NB1*

Approvals: _____ **Process Plan:** MLS

Date: MAY 03 2016

Tooling:

Date:

Stop *NR2*

QC:

Date:

SPC (Y/N):

Date:[illegible]

REFERENCE ONLY

4.0 WEIGHT AND BALANCE

The following weight and balance is for the Dart installation. The weight and balance of parts that are removed from the aircraft to perform this installation are the responsibility of the installer.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D139-1012-011 CARGO NET INSTALLATION	28.8 lb 13.0 kg	±0.0 in ±0.0 m	±0.0 in lb ±0.0 m kg	280 in 7.11 m	8064 lb in 92.4 kg m

5.0 PARTS LIST

Qty -011	Part Number	Description
X	D139-1012-011	CARGO NET INSTALLATION
1	D139-1012-041	CARGO NET ASSY
7	D5320-043	D-RING ASSEMBLY
4	D5339-1	CARABINER CLIP
4	D5397-1	D-RING
1	D5408-1	SUSPENSION ROPE
2	D5409-1	PLACARD
2	D5409-3	PLACARD
4	AN526-10R12	SCREW
4	AN970-3	WASHER
2	MS21059L3	NUT PLATE
7	MS24665-136	COTTER PIN

DAS
28
9-89**4.0 WEIGHT AND BALANCE**

The following weight and balance is for the Dart installation. The weight and balance of parts that are removed from the aircraft to perform this installation are the responsibility of the installer.

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2	D5409-1	PLACARD
2	D5409-3	PLACARD
4	AN526-10R12	SCREW
4	AN970-3	WASHER
2	MS21059L3	NUT PLATE
7	MS24665-136	COTTER PIN